Contribution ID: 1

Spin^c Dirac operators and the Kreck-Stolz s invariant.

Friday, November 9, 2018 10:40 AM (50 minutes)

We use the $Spin^c$ Dirac operator to generalize a formula of Kreck and Stolz for the s invariant of S^1 invariant metrics with positive scalar curvature. We then apply it to show that the moduli spaces of metrics with nonnegative sectional curvature on certain 7-manifolds have infinitely many path components. These include certain positively curved Eschenburg and Aloff-Wallach spaces. Furthermore, we use a $Spin^c$ version of the s invariant to discuss moduli spaces of metrics of positive scalar and twisted scalar curvature on $Spin^c$ manifolds.

Summary

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